

CLAIMS

1. An open/close cap which is screwed to a mouth portion of a pouring spout of a packaging container and adapted to open the mouth portion, the open/close cap comprising a cap body screwed to an outer peripheral surface of the mouth portion and a band attached to the cap body so as to extend in a circumferential direction thereof so as to be engaged with the pouring spout,

wherein the band is provided with at least one portion for separating the band in the circumferential direction, end portions of the separated band is connected to each other by a connection piece, which is to be cut off, at that one portion, a protruded portion is formed to an inside of the band so as to project toward the pouring spout, when the open/close cap is rotated in an opening direction with respect to the pouring spout, a forward side of the band between which the connection piece is snapped is rotated together with the cap body, and on the other hand, a rear side of the band is prevented from rotating by engagement of the protruded portion with a portion of the pouring spout, the connection pieces are cut off by a stress of the band generated by the engagement, and the band is positioned below the lower surface of the cap body so as to be attached to the lower portion of the cap body by a coupling piece.

2. The open/close cap according to claim 1, wherein the coupling piece connects the inner surface side of the band and the lower surface of the cap body.

3. The open/close cap according to claim 1 or 2, wherein a contact preventing portion having a diameter equal to at least an outer surface of the band is provided for the outer peripheral surface of the cap body so as to extend outward from the outer peripheral surface.

4. The open/close cap according to claim 3, wherein the contact preventing portion is formed by extending at least a lower portion in a vertical direction of the cap body.

5. The open/close cap according to claim 1, wherein a band shape maintaining member for preventing crushing of the band in a radially inward direction through abutment of the inside portion of the band is disposed to the lower end of the cap body in an inside portion of the band.

6. The open/close cap according to claim 5, wherein the band shape maintaining member is composed of a plurality of projections intermittently disposed to the lower end surface of the cap body in a circumferential direction thereof.

7. The open/close cap according to claim 5, wherein the band shape maintaining member is an annular member projected from the lower end of the cap body.

8. The open/close cap according to claim 5, wherein the cap body, the band shape maintaining member, the band, the connection piece and the coupling piece are integrally formed by an injection molding process.

9. The open/close cap according to claim 5, wherein a contact preventing portion having a diameter equal to at least an outer surface of the band is provided for the outer peripheral surface of the cap body so as to extend outward from the outer peripheral surface.

10. A method of manufacturing an open/close cap which comprises a cap body screwed to an outer peripheral surface of a pouring spout of a packaging container so as to open or close the pouring spout, a band disposed so as to extend in the circumferential direction of the cap body and coupled to the cap body through a coupling piece, and a band shape maintaining member disposed to a lower portion of the cap body for preventing crushing of the band in a radially inward direction through abutment of the inside portion of the band, and in which the band is provided, in a circumferential direction thereof, with at least one portion at which the band is separated in the circumferential direction, and at which end portions of the band are connected to each other by a connection piece, and the connection piece is cut off by a stress caused at a time when the open/close cap is rotated with respect to the pouring spout and a protruded portion projecting toward the pouring spout from the inside of the band rides over a portion of the pouring spout,

the manufacturing method including an injection molding step for integrally molding the cap body, the band shape maintaining member, the connection piece and the coupling piece, wherein in the injection molding step, the band is connected to the cap body by the coupling piece so that a gap between the upper end of the band and the lower end of the cap

body is formed to be larger than a dimension between the lower end of the band shape maintaining member and the lower end of the cap body, and also including a pushing step for pushing the band toward the cap body, after the injection of the injection molding step, so that the band is positioned on the outer periphery side of the band shape maintaining member.